Index of Claims

10/517,118

Date

Examiner

Daniel J. Jenkins

Applicant(s)/Patent under Reexamination

BRAM ET AL.

Art Unit

1742

| 1 | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |  |  |  |  |  |  |  |  |
|---|--------------------------------|--|--|--|--|--|--|--|--|
| ÷ | Restricted                     |  |  |  |  |  |  |  |  |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
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| o | Objected |

|              |          |  |          |   |          |          |              |                  |              |            |    |       |          | _      |    |   |
|--------------|----------|--|----------|---|----------|----------|--------------|------------------|--------------|------------|----|-------|----------|--------|----|---|
| Cla          | im       |  | _        |   |          | Date     | e            |                  | _            |            |    | Cla   | im       | Ĺ      | _  | _ |
| Final        | Original | 12/12/05   |          |   |          |          |              |                  |              |            |    | Final | Original |        |    |   |
| 1            | 1        | =  |          |   |          |          |              |                  |              |            |    |       | 51<br>52 |        |    | İ |
|              | 2        |  |          |   |          |          |              |                  |              |            |    |       | 52       |        |    | Ι |
| 2            | 3        | =  |          |   |          |          |              |                  |              |            |    |       | 53       |        |    |   |
| 3            | 4        | =  |          |   |          |          |              |                  |              |            |    |       | 54       |        |    | I |
| 4            | 5        | =  |          |   |          |          |              |                  |              |            |    |       | 55       |        |    |   |
| 5            | 6        | =  | _        |   |          |          |              |                  |              |            |    |       | 56       |        |    | I |
| 6            | 7        | Ξ  |          | $ldsymbol{le}}}}}}$ |          |          |              |                  |              |            |    |       | 57       |        |    | 1 |
| 7            | 8        | =  | _        | L   |          |          |              |                  |              | L          |    |       | 58       |        |    | 1 |
| 8            | 9        | =  |          |   |          |          | _            |                  |              | _          |    |       | 59       |        |    | ļ |
| <u></u>      | 10       | L  |          | L.  | _        | _        |              | L.               | _            | <u> </u>   |    |       | 60       | _      | L. | ļ |
|              | 11       | L  |          | L   | <u> </u> | L        | L            |                  | _            | <u> </u>   |    |       | 61       |        |    | ļ |
| ļ            | 12       | L_   |          | <u> </u>  |          | <u> </u> | L.           | _                | Ь.           | L.         |    |       | 62       |        | _  | ļ |
|              | 13       | 匚  | _        | _   | <u> </u> | L        | ᆫ            | <u> </u>         | _            | _          |    |       | 63       |        |    | ļ |
|              | 14       | <u> </u>   | <u> </u> |   | ╙        | <u> </u> | ┡            | <u> </u>         | _            | _          |    |       | 64       |        |    | ļ |
|              | 15       |  |          | _   | <u> </u> | <u> </u> | _            | _                | <u> </u>     | -          |    |       | 65       |        | ļ  | ļ |
|              | 16       |  |          | <u> </u>  | <u> </u> | <u> </u> | _            | <u> </u>         | <del> </del> | <u> </u>   |    |       | 66       |        | _  | ╀ |
| <u> </u>     | 17       | _  | _        | <u> </u>  | _        | $\vdash$ | ⊢            | _                | <u> </u>     | <u> </u>   |    |       | 67       | _      | -  | ╀ |
|              | 18       |  |          | <u> </u>  | -        | $\vdash$ | ├            | -                | ⊢            | -          |    |       | 68       |        |    | ╀ |
| <u> </u>     | 19       |  |          |   | <u> </u> | H        | -            | ⊢                | H            | <b> </b> - |    |       | 69       | -      |    | ╀ |
| <u> </u>     | 20       |  |          |   | -        | -        | ├            | <u> </u>         | $\vdash$     | _          |    |       | 70       |        |    | ╀ |
| $\vdash$     | 21       |  |          | ├   | <u> </u> | ├        | ⊢            | ⊢                | ⊢            | ┢          |    |       | 71       |        |    | ╀ |
|              | 22       | _  |          | ├-  | -        | -        | ┝            | -                | H            |            |    |       | 72       | _      | _  | ╀ |
| $\vdash$     | 23<br>24 | $\vdash$   |          | ⊢   | -        | -        | ├            | _                | ⊢            | <u> </u>   |    |       | 73<br>74 | _      |    | ł |
| <u> </u>     | 25       | -  | -        | -   | ┢        | $\vdash$ | -            | ⊢                | -            |            |    |       | 75       | -      |    | ╁ |
| <b>-</b> -   | 26       | <del> </del>                                     | -        | ┝   | $\vdash$ |          | ┢            | -                | $\vdash$     | ┢          |    |       | 76       | _      |    | ł |
|              | 27       |  | —        | $\vdash$  | ⊢        | H        | ⊢            | ⊢                | $\vdash$     | ├─         |    |       | 77       |        |    | ł |
|              | 28       | <del>                                     </del> | _        | $\vdash$  | ┢        | $\vdash$ | ┝            | ⊢                | -            | ├          |    |       | 78       | _      |    | ł |
|              | 29       | -  | -        | ┝   | ┢        | $\vdash$ | ┝┈           | ┢                | ┢            | ┢          |    |       | 79       | -      | _  | t |
|              | 30       | H  |          | H   | ┢        | H        |              | H                | ┝╌           | -          | ╽┟ |       | 80       |        |    | t |
|              | 31       | H  | -        | -   | -        | $\vdash$ | <del> </del> | -                |              |            | lŀ |       | 81       |        |    | t |
|              | 32       | Н  |          | H   | $\vdash$ | $\vdash$ | $\vdash$     | <del>  -  </del> | $\vdash$     | _          | H  |       | 82       |        |    | t |
|              | 33       | $\vdash$   |          |   |          |          | $\vdash$     | $\vdash$         | ┝            | Н          |    |       | 83       | -      |    | t |
|              | 34       |  |          | Н   |          |          |              | ┢                |              |            |    |       | 84       |        | _  | t |
|              | 35       |  | $\vdash$ | $\vdash$  | П        |          |              | Г                |              | $\vdash$   |    |       | 85       |        |    | t |
|              | 36       |  | -        | Т   |          | H        |              | Т                |              | П          | }  |       | 86       |        | _  | t |
|              | 37       | П  |          | Т   | Г        |          |              |                  | <u> </u>     |            |    |       | 87       | П      |    | t |
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|              | 39       |  |          |   |          |          |              | _                |              |            |    |       | 89       |        | _  | t |
|              | 40       |  |          |   |          |          |              |                  |              |            |    |       | 90       |        |    | ľ |
|              | 41       |  |          |   |          |          |              |                  |              |            |    |       | 91       |        |    | Γ |
|              | 42       |  |          |   |          |          |              |                  |              |            |    |       | 92       |        |    | Γ |
|              | 43       |  |          |   |          |          |              |                  |              |            |    |       | 93       |        |    | ſ |
|              | 44       |  |          |   |          |          |              |                  |              |            |    |       | 94       |        |    | ſ |
|              | 45       |  |          |   |          |          |              |                  |              |            |    |       | 95       |        |    | ſ |
|              | 46       |  | ]        |   |          |          |              |                  |              |            |    |       | 96       |        |    | ſ |
|              | 47       |  |          |   |          |          |              |                  |              |            |    |       | 97       | $\Box$ |    | Ĺ |
| Ш            | 48       |  |          |   | Ш        |          |              |                  |              |            |    | ]     | 98       | ]      |    | Ĺ |
| $oxed{oxed}$ | 49       | $\sqcup$   |          |   | Ш        | Ш        |              |                  |              |            |    |       | 99       |        |    | Ĺ |
| لــــا       | 50       |  |          |   |          | Ш        |              |                  |              |            |    |       | 100      |        |    | L |
|              |          |  |          |   |          |          |              |                  | -            | _          |    |       |          |        |    |   |

| <u> </u> | 21111          |          |          |                                     |                                     | 200      | <u> </u>     |          |          |          |
|----------|----------------|----------|----------|-------------------------------------|-------------------------------------|----------|--------------|----------|----------|----------|
| Final    | Original       |          |          |                                     |                                     |          |              | è        |          |          |
|          | 51             | Н        |          | t                                   | $\vdash$                            | $\vdash$ | -            | -        | 1        | ┰        |
|          | 51<br>52       | $\vdash$ |          |                                     |                                     |          | Т            | Г        |          |          |
|          | 53             |          |          |                                     | † <u> </u>                          |          |              |          |          | 1        |
|          | 54             |          |          |                                     |                                     |          |              |          |          |          |
|          | 54<br>55       |          |          |                                     |                                     |          |              |          | П        |          |
|          | 56             |          |          |                                     |                                     |          |              |          |          |          |
|          | 57             |          |          |                                     |                                     |          |              |          |          |          |
|          | 58             |          |          |                                     |                                     |          |              |          |          |          |
|          | 59             |          |          | L                                   |                                     | L        |              |          | _        |          |
|          | 60             |          | L        | L                                   | L                                   | 乚        | <u></u>      | L.       | 匚        |          |
|          | 61             |          | _        | L                                   | L                                   | _        | ᆫ            | L        | L        | _        |
| <u></u>  | 62<br>63       | _        | _        | ┖                                   |                                     |          | _            |          |          |          |
|          | 63             | <u>L</u> |          | L                                   | L                                   | <u> </u> | _            | _        | L        | _        |
| <u></u>  | 64             | <u> </u> | _        | L                                   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | <u> </u>     | <u> </u> | _        | _        |
|          | 65             | L_       | L        | L                                   | _                                   | _        | <u>Ļ</u>     | _        | <u> </u> |          |
| <u></u>  | 66             | ļ        | <u> </u> | _                                   | _                                   | _        | _            | _        | _        | L.       |
|          | 67             | _        | <u> </u> | <u> </u>                            | <u> </u>                            | <u> </u> | ╙            | <u> </u> | <u> </u> |          |
|          | 68             | L        | <u> </u> | <u> </u>                            | _                                   | <u> </u> | <u> </u>     | ╙        | <u> </u> |          |
|          | 69             | _        |          | _                                   | _                                   | L.       | ļ_           | ļ        | _        |          |
|          | 70<br>71       | <u> </u> | ļ        | <u> </u>                            | _                                   |          | _            |          |          |          |
|          | 71             |          | <u> </u> | <u> </u>                            | ▙                                   | $\vdash$ | <u> </u>     | <u> </u> | ┝        | $\vdash$ |
|          | 72             | L        | <u> </u> | _                                   | <u> </u>                            | _        | _            | ┡        | <u> </u> | <u> </u> |
| _        | 73             | _        | <u> </u> | ┡                                   | _                                   | ⊢        | ┡            | <u> </u> | _        | <u> </u> |
| -        | 73<br>74<br>75 | _        | ⊢        | ⊢                                   | ├-                                  | <u> </u> | ⊢            | _        | <u> </u> | <u> </u> |
| -        | 76             |          | ┝        | ┝                                   | ┝                                   | -        | ⊢            | ⊢        | ├        | ⊢        |
| -        | 76<br>77       | -        | ⊢        | ⊢                                   |                                     | -        | ┝            | ┝        | ├        | ┝        |
| $\vdash$ | 79             | $\vdash$ | ⊢        | ⊢                                   | ⊢                                   | -        | -            | -        | ├        | ┝        |
|          | 78<br>79       | -        | -        | ┢                                   | ┝╌                                  |          | $\vdash$     | -        | -        | ├─       |
| -        | 80             | H        | -        | ┝                                   | ╁                                   | -        | -            | -        | -        | $\vdash$ |
|          | 81             |          | $\vdash$ | ╁╌                                  | $\vdash$                            |          |              |          | -        | ┢        |
|          | 81<br>82       |          | ┢        | ╁                                   | ┝                                   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ |
|          | 83             | _        | ┢        |                                     | $\vdash$                            | ┢        | $\vdash$     | H        | $\vdash$ | Н        |
|          | 84             |          | <u> </u> | $\vdash$                            | T                                   | ┢        | $\vdash$     | $\vdash$ | ┢        | ┢        |
|          | 84<br>85       |          |          |                                     |                                     |          |              | Г        |          |          |
|          | 86             |          | Г        |                                     |                                     |          |              | Г        | Γ        |          |
|          | 87             |          |          |                                     | $\vdash$                            |          | $\vdash$     | Г        | Г        |          |
|          | 88             |          |          |                                     |                                     |          |              |          | Г        |          |
|          | 89             |          |          | Г                                   |                                     | Г        |              |          |          |          |
|          | 90<br>91       |          |          |                                     |                                     |          |              |          |          |          |
|          | 91             |          |          |                                     |                                     |          |              |          |          |          |
|          | 92             |          |          |                                     |                                     |          |              |          |          |          |
|          | 93             |          |          |                                     | 匚                                   |          |              |          |          |          |
|          | 94             |          |          |                                     |                                     |          |              |          |          |          |
| L        | 95             |          |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                                     |          | $oxed{\Box}$ | oxdot    |          |          |
|          | 96             |          |          |                                     | L                                   | Ш        | Ш            | Ш        |          |          |
| <u></u>  | 97             |          | Ш        | L.,                                 | L                                   | Ш        | $oxed{oxed}$ | Ш        | Ш        |          |
| <u> </u> | 98             |          |          | _                                   | L_                                  |          | Щ            |          |          |          |
| <u></u>  | 99             |          |          | L                                   | <u> </u>                            | _        |              |          | Щ        |          |
|          | 100            |          |          |                                     |                                     |          |              |          |          |          |

| Cli    | aim   | Date   |          |          |          |                                     |          |  |  |                     |  |
|--------|---|--|----------|----------|----------|-------------------------------------|----------|--|--|---------------------|--|
|        |   | Г  |          | T        | Γ_       | Γ                                   | П        | П  | П  | П                   |  |
| Final  | Original                                      |  |          |          |          |                                     |          |  |  | :                   |  |
|        | 101<br>102                                    |  |          |          |          |                                     | Г        |  |  |                     |  |
|        | 102   | Г  |          | Г        |          |                                     | Г        |  | Г  |                     |  |
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|        | 106   | <u> </u>   |          |          |          | L                                   | <u> </u> |  |  | Щ                   |  |
|        | 106<br>107<br>108                             | <u> </u>   |          | <u> </u> | <u> </u> | _                                   | <u> </u> | <u> </u>   | 匚  | Ш                   |  |
|        | 108   | _  | _        | <u> </u> | _        | L                                   | ┞        | <u> </u>   | <u> </u>   | Ш                   |  |
|        | 109   | _  | _        | ⊢        | _        | ├-                                  | ├-       | <b> </b>   | <u> </u>   | Н                   |  |
|        | 110<br>111                                    | ⊢  |          | ⊢        | H        |                                     | -        | -  | -  | $\vdash$            |  |
|        | 112   | ⊢  | ├        | ⊢        | ⊢        | ├                                   | ⊢        | ⊢  | ├  | $\vdash$            |  |
|        | 112   | ┢  | -        | -        | $\vdash$ | ╁                                   | ⊢        | ╢  | ╁─   | ${oldsymbol{dash}}$ |  |
|        | 113<br>114<br>115                             | $\vdash$   | $\vdash$ | H        | H        | $\vdash$                            | H        | ┢╌   | -  | $\vdash \vdash$     |  |
|        | 115   | $\vdash$   | $\vdash$ | $\vdash$ | Н        | $\vdash$                            | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$            |  |
|        | 116   | Т  | ┢        | T        | ┢        | $\vdash$                            | $t^-$    |  | <del>                                     </del> | $\vdash$            |  |
|        | 116<br>117                                    |  | Г        |          |          | Г                                   | T        |  | T  | П                   |  |
|        | 118   | Т  | _        |          | <u> </u> |                                     |          | <u> </u>   | 1  | П                   |  |
|        | 118<br>119                                    | <del>                                     </del> |          |          |          |                                     |          |  |  | П                   |  |
|        | 120   |  |          |          |          |                                     |          |  |  |                     |  |
|        | 121<br>122<br>123                             |  |          |          |          |                                     |          |  |  |                     |  |
|        | 122   |  |          |          |          |                                     |          |  |  |                     |  |
|        | 123   |  | <u> </u> | <u> </u> | <u> </u> | L                                   | <u> </u> | <u> </u>   | _  | Ш                   |  |
|        | 124   | L  | L        | L_       | _        | _                                   | L.       |  | <u> </u>   | Ш                   |  |
|        | 125   | _  | <u> </u> | _        | _        | _                                   |          |  |  | Ш                   |  |
|        | 126   | ŀ  | <u> </u> | _        | ┡        | ⊢                                   | <u> </u> | L  | <u> </u>   | Н                   |  |
|        | 127   | ┝  |          | H        | _        | ⊢                                   | ⊢        | ├-   | -  | $\vdash$            |  |
|        | 120   | ⊢  | -        | $\vdash$ |          |                                     | ⊢        | H  | ⊢  | Н                   |  |
|        | 124<br>125<br>126<br>127<br>128<br>129<br>130 | <del> </del>                                     |          | -        | $\vdash$ | $\vdash$                            | $\vdash$ | ├─   | ⊢  | Н                   |  |
|        | 131   | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ | ┢╌                                  | ├        | ├─   | -  | $\vdash$            |  |
|        | 132   | -  | _        | $\vdash$ | -        | $\vdash$                            | ┢─       | -  | ┢─   | Н                   |  |
|        | 132<br>133                                    |  | -        |          |          | $\vdash$                            | $\vdash$ | <del>                                     </del> | 一  | Н                   |  |
|        | 134   | Г  | Г        |          | Т        | Г                                   | T        | 1  | $\vdash$   | Н                   |  |
|        | 135   |  |          |          |          |                                     |          |  |  | П                   |  |
|        | 136   |  |          |          |          |                                     |          |  |  |                     |  |
|        | 137   |  |          |          | Ĺ        |                                     |          |  | 匚  | Ш                   |  |
|        | 138<br>139                                    |  | L        | L        | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $\Box$   | $ldsymbol{oxed}$                                 | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | Ш                   |  |
|        | 139   | <u> </u>   | L        | L        | <u> </u> | $ldsymbol{ldsymbol{\sqcup}}$        | <u> </u> | <u> </u>   | <u> </u>   | Ш                   |  |
|        | 140   | <u> </u>   | <u> </u> | L        | <u> </u> | Ь—                                  | ⊢        | ⊢  | ⊢  | Н                   |  |
|        | 141<br>142                                    | <u> </u>   |          | <u> </u> | <u> </u> | <u> </u>                            | <u> </u> | ⊢  | <u> </u>   | Н                   |  |
|        | 143   | ┝╼   | Н        | -        | -        | $\vdash$                            | ├        | <del> </del>                                     | ⊢  | Н                   |  |
|        | 144   | $\vdash$   | -        | -        | H        | $\vdash$                            | $\vdash$ | ├  | <u> </u>   | Н                   |  |
|        | 145   | ├  | $\vdash$ | $\vdash$ | <u> </u> |                                     | $\vdash$ | $\vdash$   | $\vdash$   | Н                   |  |
|        | 146   | ├─   | -        |          | H        | -                                   | $\vdash$ | $\vdash$   | $\vdash$   | Н                   |  |
|        | 147   | $\vdash$   |          | -        | $\vdash$ | -                                   | $\vdash$ | $\vdash$   | -  | Н                   |  |
|        | 148   | Н  | -        | -        | ┝┈       | -                                   | H        | $\vdash$   | Η.   | Н                   |  |
| $\neg$ | 149   | Н  | $\vdash$ | -        |          | $\vdash$                            | -        | -  |  | H                   |  |
|        | 150   | Н  |          | -        | П        | $\vdash$                            | $\vdash$ | $\vdash$   | -  | $\dashv$            |  |
|        |   |  |          | L.,      |          |                                     |          |  |  | _                   |  |